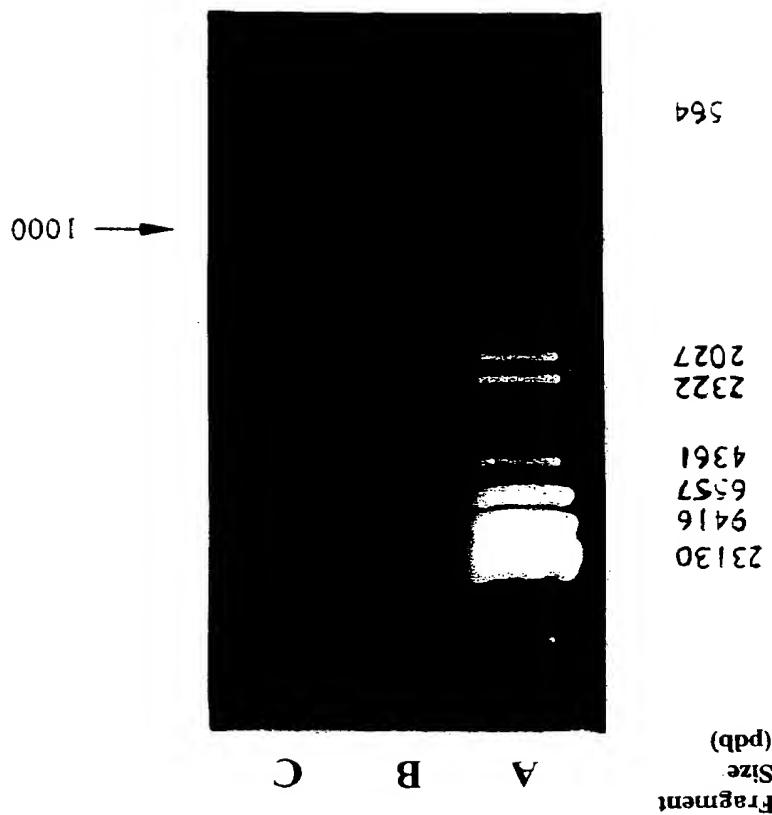


FIG. 1



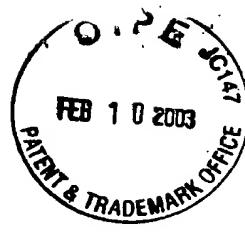


FIG. 2A

hsK1n17 . pep	16	10	1997	16	00
hsK1n17 . pep	10	20	30	40	50
hsK1n17 . pep	110	120	130	140	150
hsK1n17 . pep	210	220	230	240	250
hsK1n17 . pep	310	320	330	340	350
hsK1n17 . pep	410	420	430	440	450
hsK1n17 . pep	460	470	480	490	500
hsK1n17 . pep	490	500			



FIG. 2B

hsK1n17-mmK1n17	16	10	1997	15	59	100
hsK1n17 . seq	TGATTCGAGC	TCGGTACCCG	GGGATCCGAT	TAGAAAAGTGA	TCGCTGCCGT	GGCGCCATG
mmK1n17 . seq						
hsK1n17 . seq	GGATCAAGTC	CAAGGGCTG	CAGAAGCTAC	GCCTGGTATTG	CCAGATGTGC	CAGAAGCAGT
mmK1n17 . seq	* *	*	*	*	*	*
hsK1n17 . seq	GAATTAAAGTC	CAAAGGGCTC	CAGAAGCTC	GCCTGGTACTG	CCAGATGTGC	CAAAGGCAAT
mmK1n17 . seq	210	220	230	240	250	260
hsK1n17 . seq	ATCTCATCAG	AGACAACAT	TGCTGGCTTC	AGAAAATCT	CAGGAGTTTA	TGGATTATT
mmK1n17 . seq	*	*	*	*	*	*
hsK1n17 . seq	ATCTCATCAA	AGACAACGT	TGCTGGCTTC	AGAAAACCT	CAGGAGTTTA	TGGATTATT
mmK1n17 . seq	310	320	330	340	350	360
hsK1n17 . seq	AGACGGCTTG	GGACTAAAG	GGTCACAAAC	ACATTTGCT	ACAAAGGAATA	CATCAGGCCAC
mmK1n17 . seq	*	*	*	*	*	*
hsK1n17 . seq	CGACGGCTTG	GGACTAAAG	GGTCACAAAC	ACATTTGCT	ACAAATGAATA	CATCAGGCCAC
mmK1n17 . seq	410	420	430	440	450	460
hsK1n17 . seq	TGACTGATT	TACTAAGTGG	CTGGGAGAG	AAGGCCTGTC	CAAAAGTGGAC	GAGACACCAA
mmK1n17 . seq	*	*	*	*	*	*

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FIG. 2C

	510	520	530	540	550	560	570	580	590	600
hsK1n17 . seq	TATCGCGGG	CAACTGGAAC	TGGAGAAAAA	GGAAAAGCAAG	GAACCTTGATG	ATGAAAGAAA	AACTGCCAAA	TITATIGAAAG	AGCAAGTGAAG	AAGAGGGCTG
	*	*	*	*	*	*	*	*	*	*
mmK1n17 . seq	CATCCGTGG	CAACTGGAAAT	TAGAAAHAAA	GAAGGAAGCAA	GATCTGGACG	ATGAAAGAAA	AACTGCCAAG	TTCATTGAGG	AGCAGGTGAAG	AAGAGGGCTG
	610	620	630	640	650	660	670	680	690	700
hsK1n17 . seq	GAAGGGAAAG	AACAGGGGGT	CCCTTACTTTT	ACGGAAATTAA	GCAGAGAAAAA	TGATGAAGAG	AAAGTCACGT	TAAATTGAG	TAAGGAGCA	TGTAAGCTCAT
	*	*	**	*	**	*	*	*	*	*
mmK1n17 . seq	GAAGGGAAAG	AGCAGGAGAC	ACCTGTTTTT	ACAGAACTTA	GCCTGAGAAAAA	TGAGGAAGAA	AAAGTTACGT	TCAAATCTGAA	TAAGGAGCC	GGTGGGCTCAG
	710	720	730	740	750	760	770	780	790	800
hsK1n17 . seq	CCGGAGCAAC	ATCTCCAAG	TCAAGTACTC	TGGGACCGAG	TGCACTGAAG	AGGATAGAA	GTTCAAGCATC	AGTGAAGCA	AAAGAACCTT	CCCAAGAGCTC
	*	*	**	*	*	**	**	**	*	*
mmK1n17 . seq	CGGGAGCTAC	AACATCCAAG	TCAAGCTCTT	TGGGACCAAG	TGCACTGAAG	TGCACTGAAG	CGGGAAACGG	AAAGAGTCTT	CACAGAGCTC	

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FIG. 2D

hsKin17-mmKin17 16 10 1997 15 59

	810	820	830	840	850	860	870	880	890	900	
hsKin17 . seq	AACTCAGCT	AAAGAAAAAGA	AGAAAAAGAA	ATCTGACTG	GATGAAATCA	TGGAGATIGA	AGAGGAAACTG	AAAAGAACAGA	CCCGAACAGA	CTACTGGCTA	
mmKin17 . seq	**** *	**** *	** *	** *	** *	** *	** *	** *	** *	** *	
hsKin17 . seq	910	920	930	940	950	960	970	980	990	1000	
mmKin17 . seq	CAGGCTGAAA	TTATTTGAA	AAATTAAACC	AAGAAACTGG	GAGGAAATAA	TCATAAGAA	AAAGGGCTATT	GTAAAGGAAAG	TAATTTGACAA	ATATACAGCT	
hsKin17 . seq	**** *	**** *	** *	** *	** *	** *	** *	** *	** *	** *	
mmKin17 . seq	CAGGGGGGA	TCGTGTGAA	AAATTAAACG	AAGAAACTTG	GGGAGAAATA	TCAGAAAGAAG	AAAGGGGG	TC	GTAAAGGAAAG	TGATTGACAG	GTACACAGCT
hsKin17 . seq	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	
mmKin17 . seq	GTGTGAAAGA	TGATGATTC	TGGAGACAG	CTGAAACTTG	ACAGACTCA	TTTAGAGACA	GTAAATTCCAG	CACCAAGAAA	AAGAAATTCTA	GTTTTAAATG	
hsKin17 . seq	**** *	**** *	** *	** *	** *	** *	** *	** *	** *	** *	
mmKin17 . seq	1110	1120	1130	1140	1150	1160	1170	1180	1190	1120	
hsKin17 . seq	GAGGCTACAG	AGGAATGAA	GGTACCCCTAG	AATCCATCAA	TGAGAAGACT	TTTTCACTA	CTATCGTCA	TGAAACTGGC	CCTTTAAAG	GACCCAGAGT	
mmKin17 . seq	GAGGCTACAG	AGGAAATGAA	GGGACTCTCG	AATCCATCAA	TGAGAAGGCT	TTTTCAGCCA	CGATAGTICAT	TGAAACTGGA	CCTTTGAAG	GACCCAGAGT	



FIG. 2E

hsKin17 . seq	TGAGGAATT CAATATGAA ACTATCTAA * * *	1210 1220 1230 1240 1250 1260 1270 1280 1290 1300
mrKin17 . seq	TGAGGTATT CAATATGAA ACTATCTAA 1310 1320 1330 1340 1350 1360 1370 1380 1390 1400	
hsKin17 . seq	***** AGGCACTGT TAACTCTACT 1410 1420 1430 1440 1450 1460 1470 1480 1490 1500	
mrKin17 . seq	***** TTTTTTAA GTGAAAAAA 1410 1420 1430 1440 1450 1460 1470 1480 1490 1500	
hsKin17 . seq	***** AAAACTATG 1410 1420 1430 1440 1450 1460 1470 1480 1490 1500	
mrKin17 . seq	***** AAAAAAA 1410 1420 1430 1440 1450 1460 1470 1480 1490 1500	



FIG. 3A

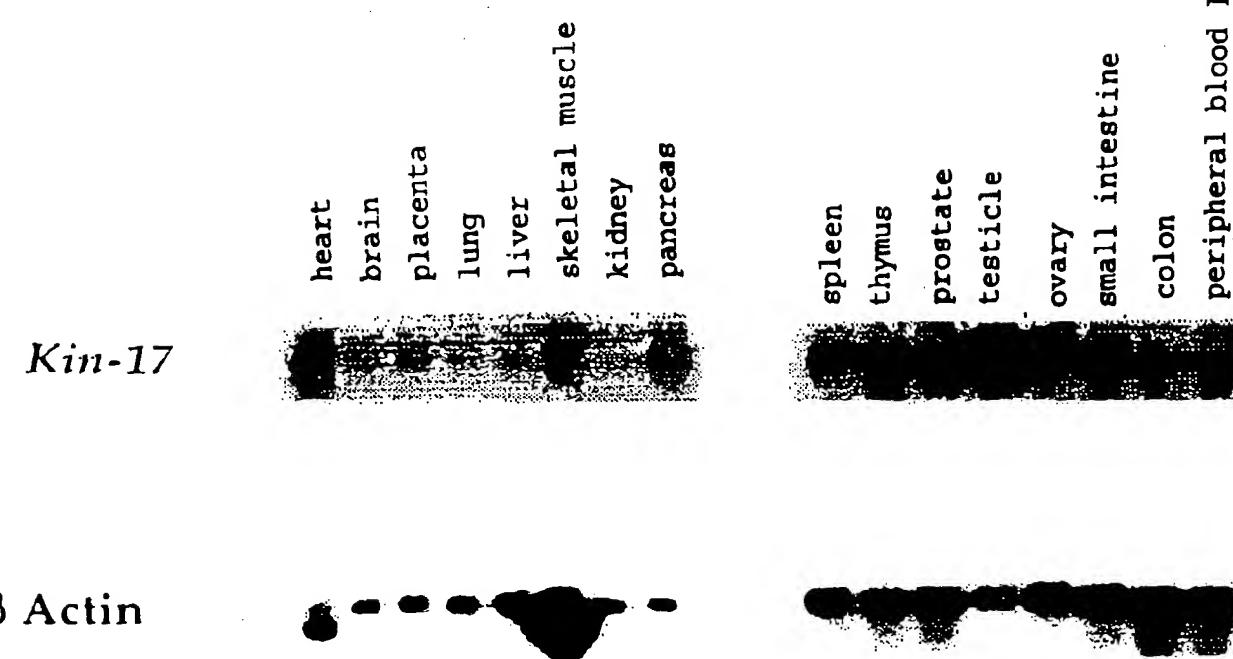
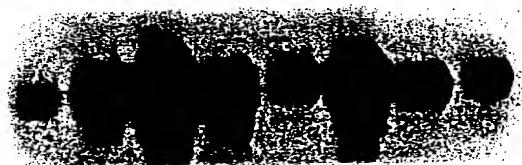




FIG. 3B

HL-60 Hela S3
K-562 Molt-4
Raji SW480
A 549 G 361

Kin-17



β Actine



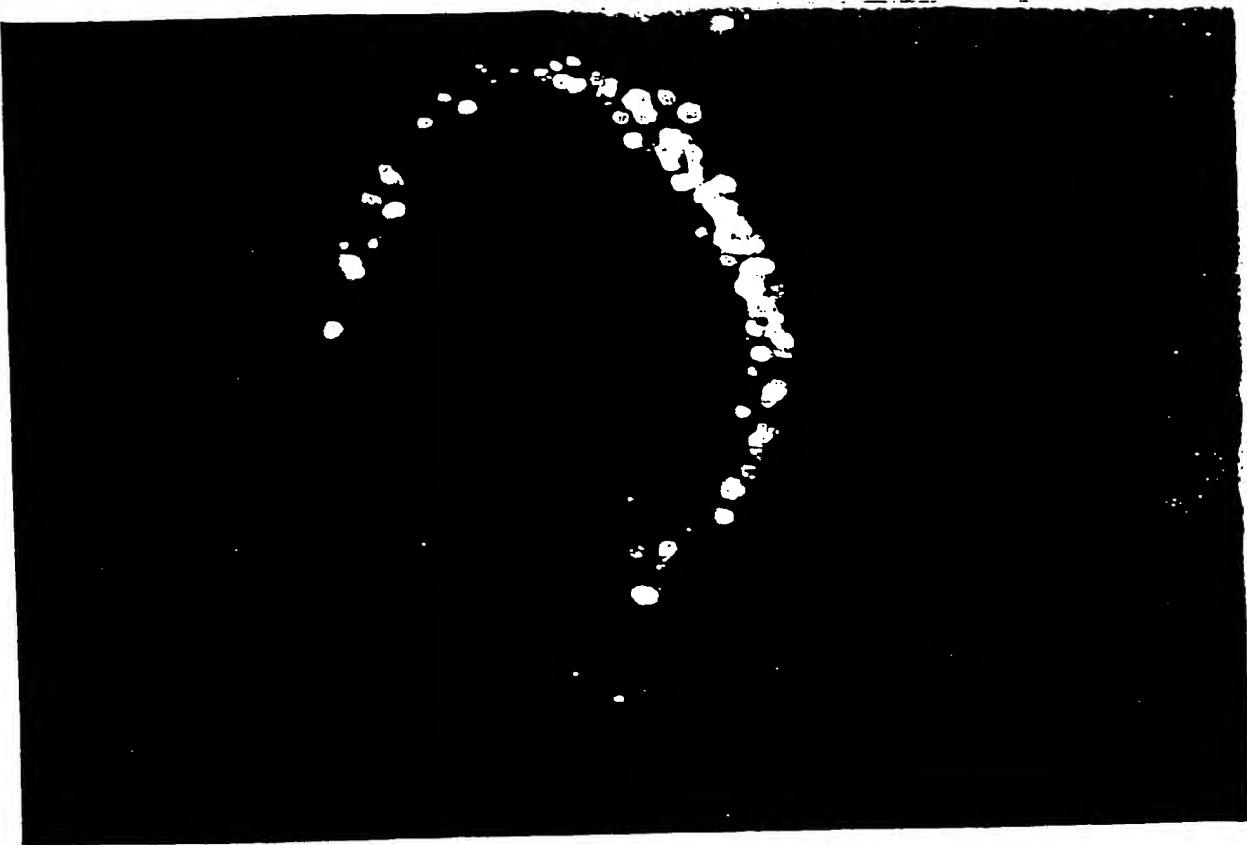


FIG. 4A

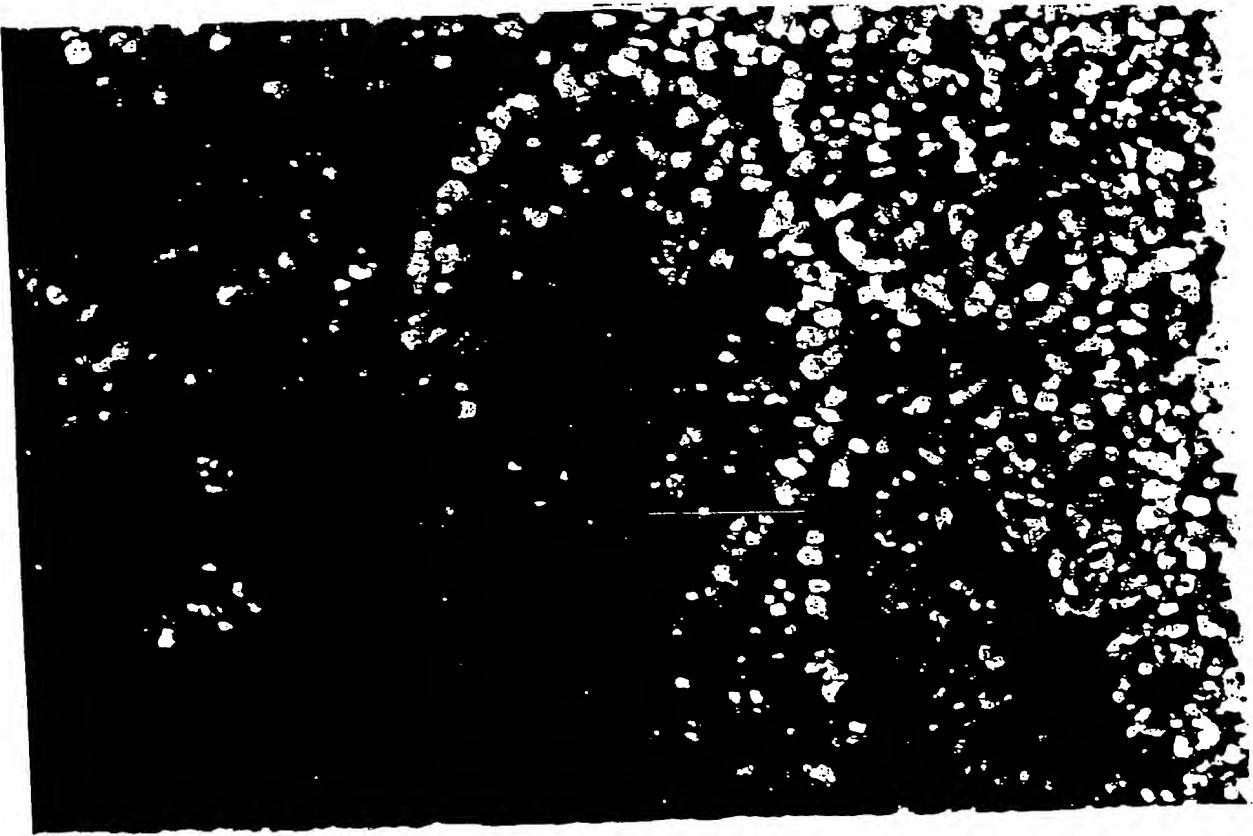


FIG. 4B

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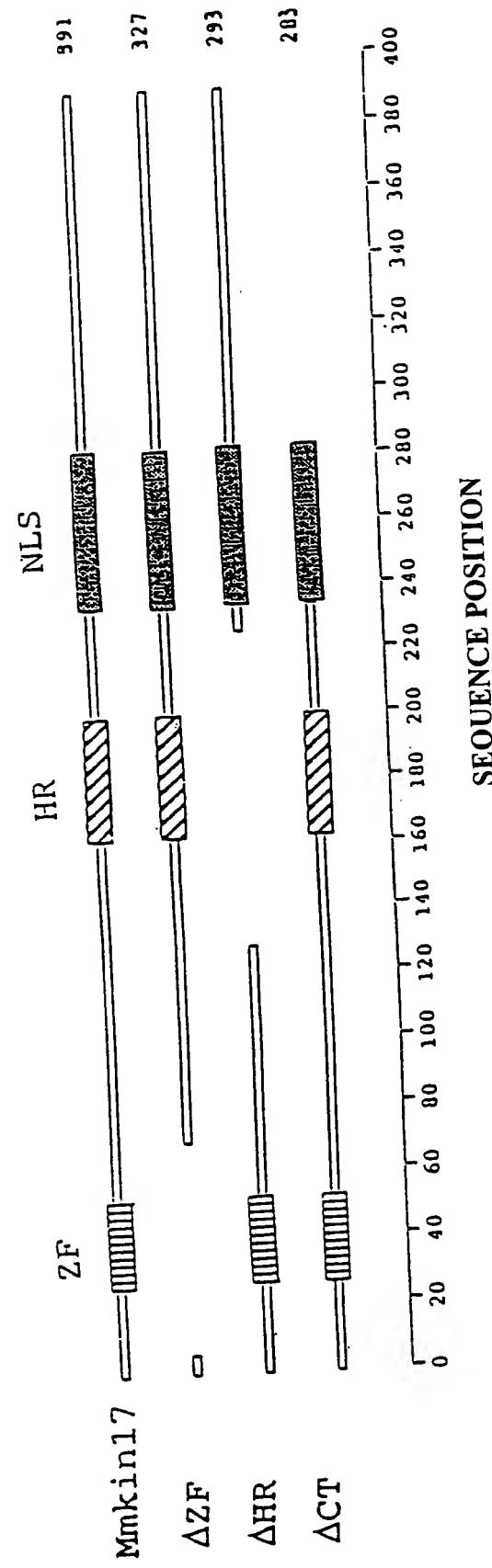


FIG. 5



FIG. 6A



FIG. 6B

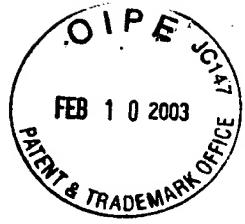


FIG. 7A

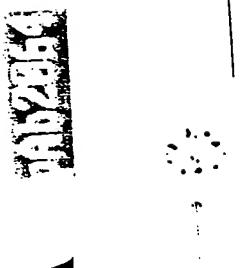


FIG. 7B

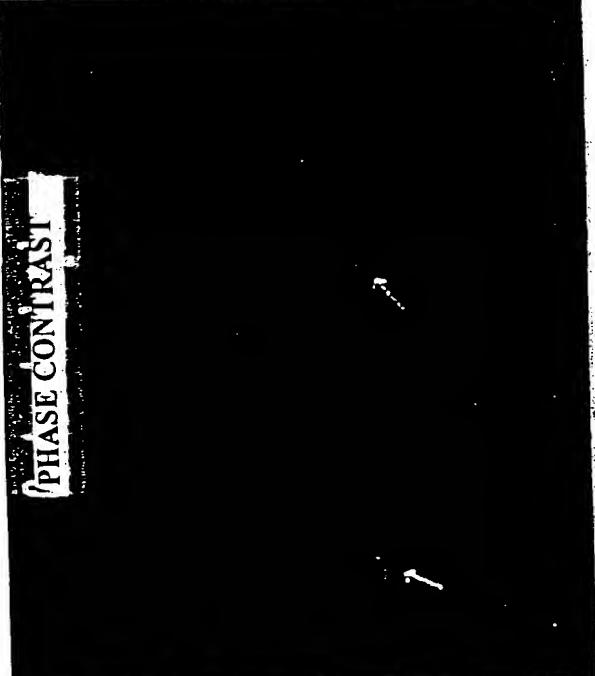
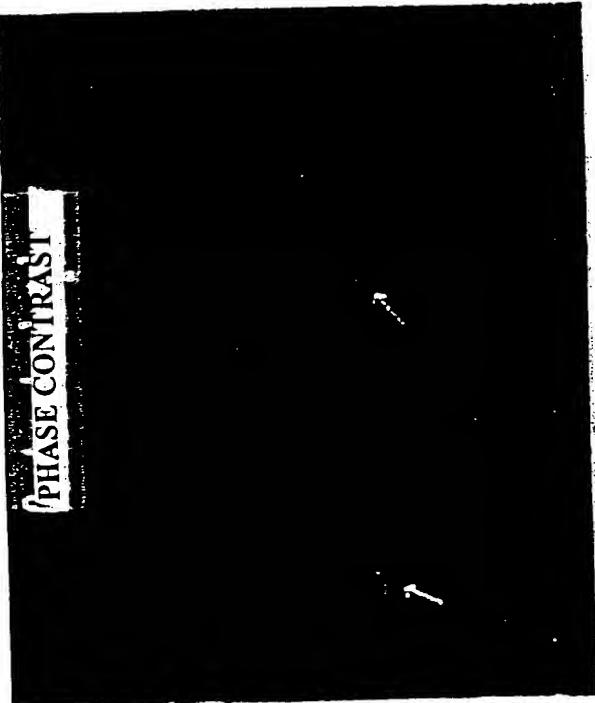
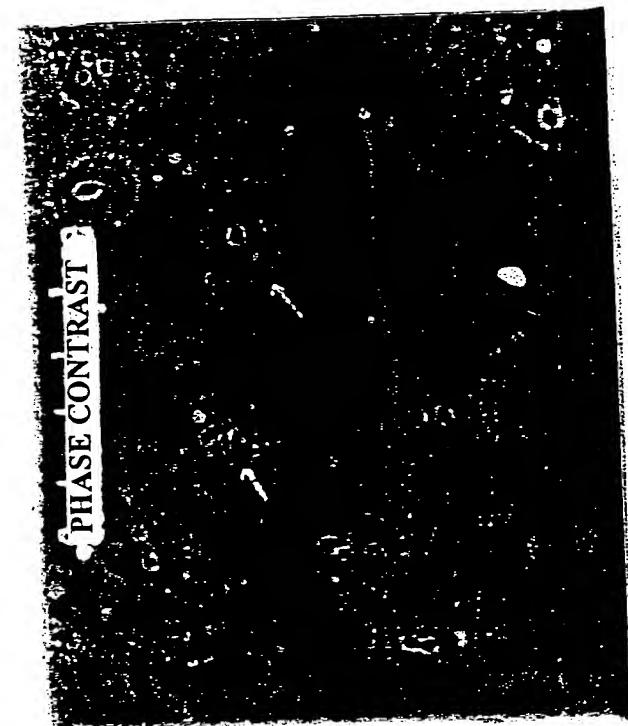
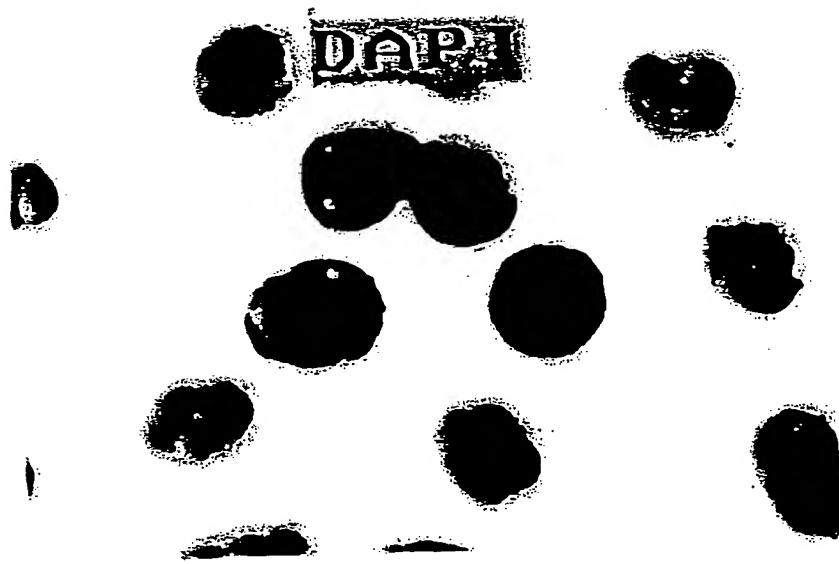




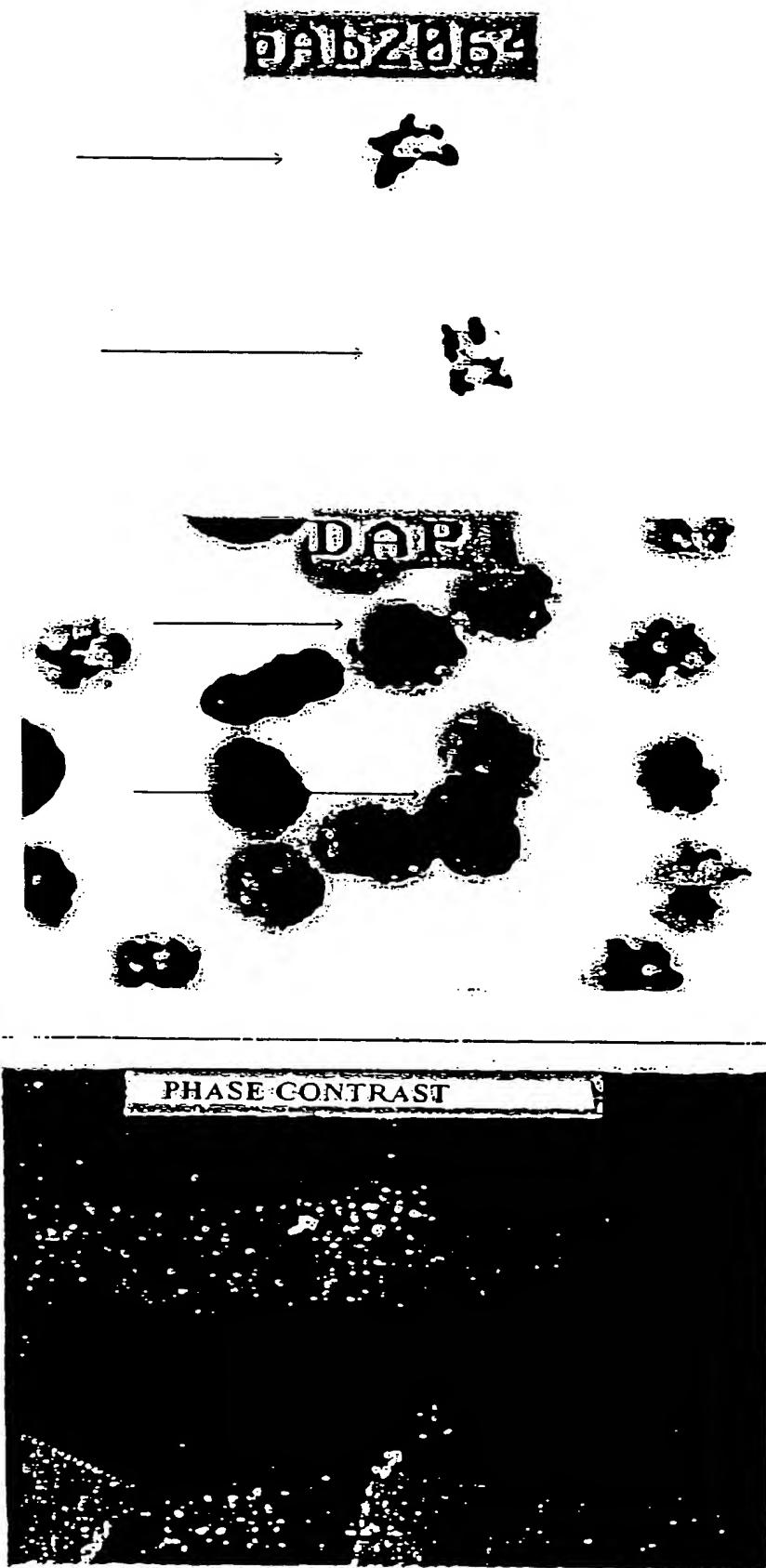
FIG. 8A

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FIG. 8B



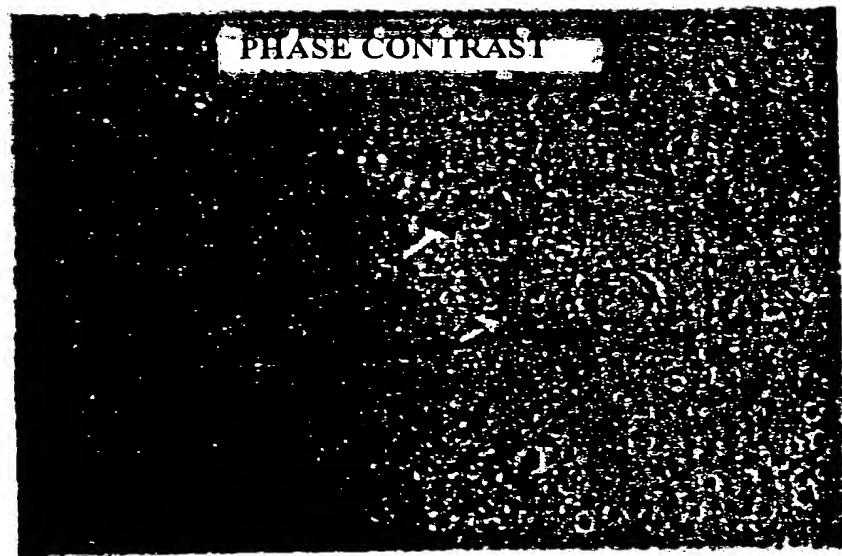
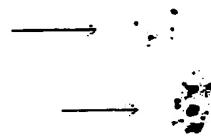
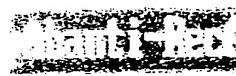


FIG. 9

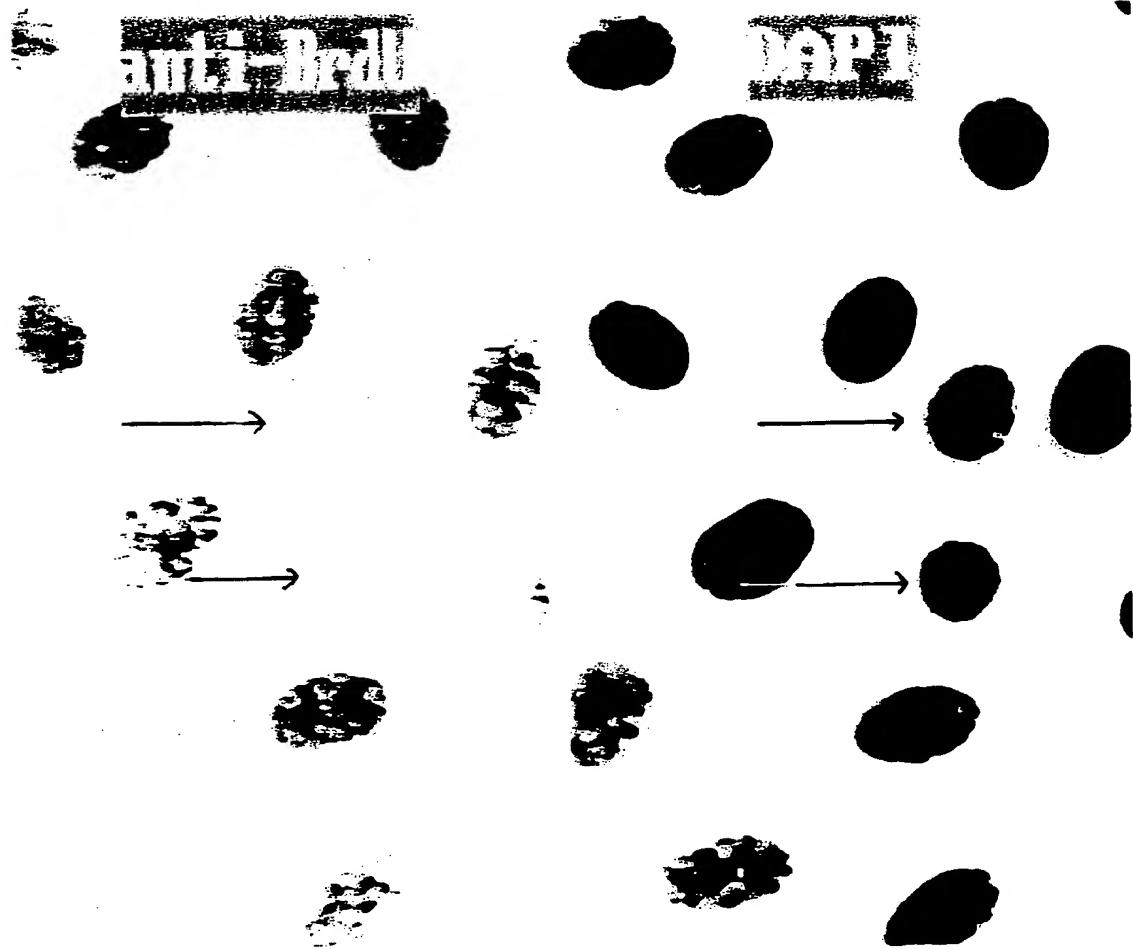
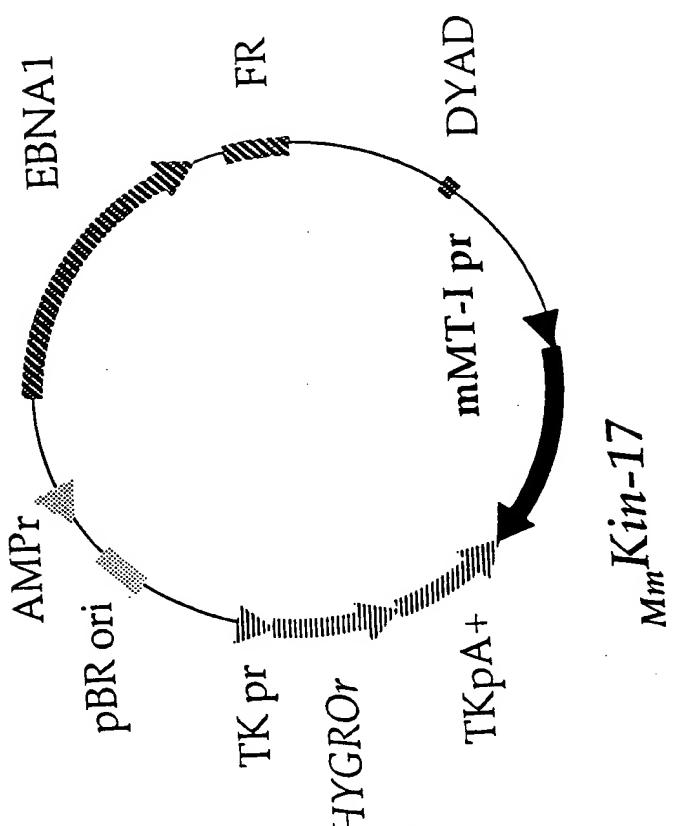


FIG. 10A



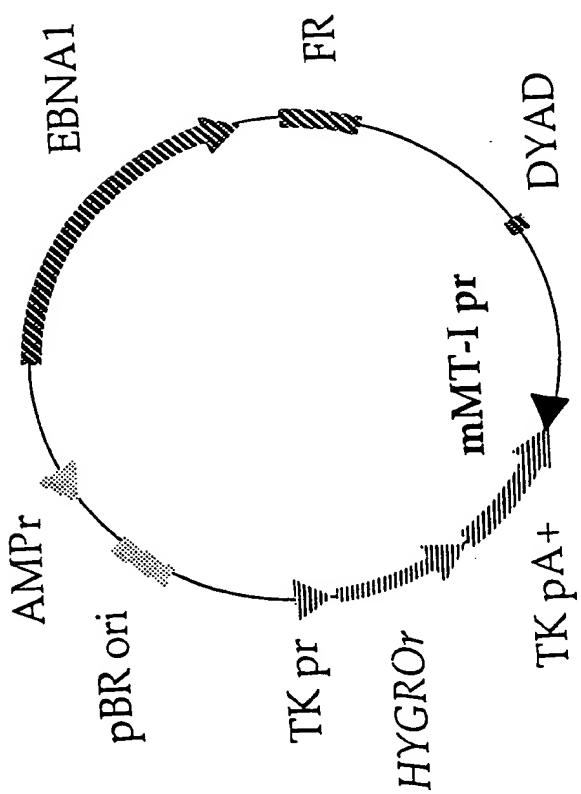
PROTEIN EXPRESSED	NONE	kin17		kinΔHHR	kinΔCT
		LOW LEVEL	HIGH LEVEL		
% of Cells REPLICATING THEIR DNA		40	40	0	0

FIG. 10B



pEBVMT_{Mm}Kin17 (pB223)
(10271 bp)

FIG. 11B



pEBVMT Δ (pB220)
(8824 bp)

FIG. 11A



FIG. 12A

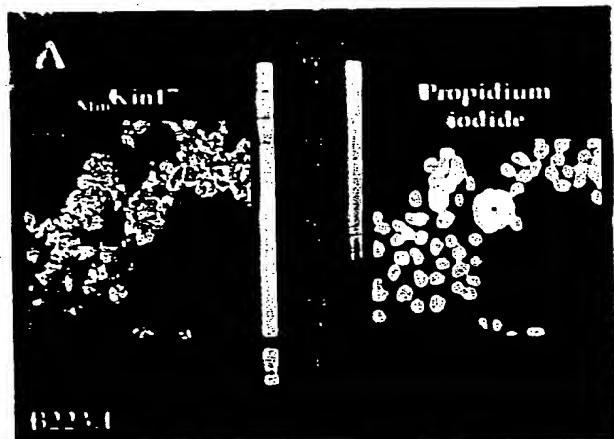


FIG. 12B

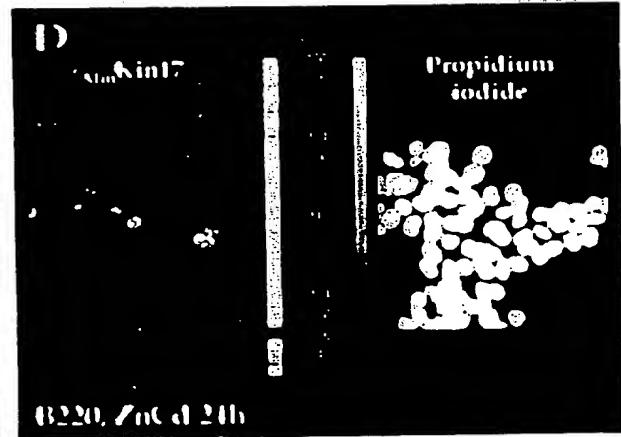
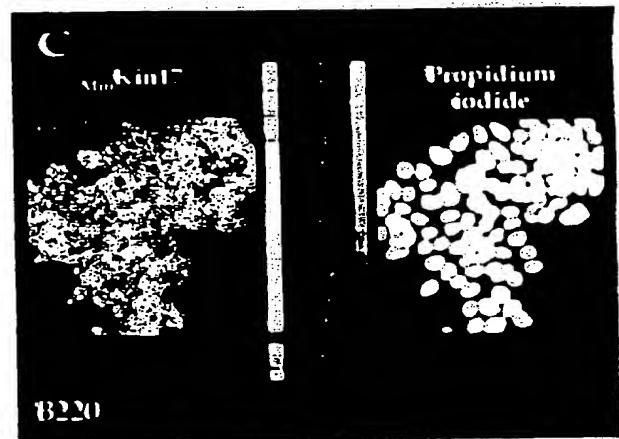
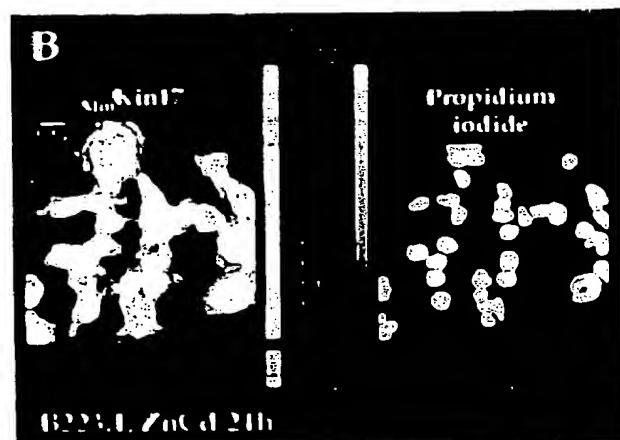


FIG. 12C

FIG. 12D

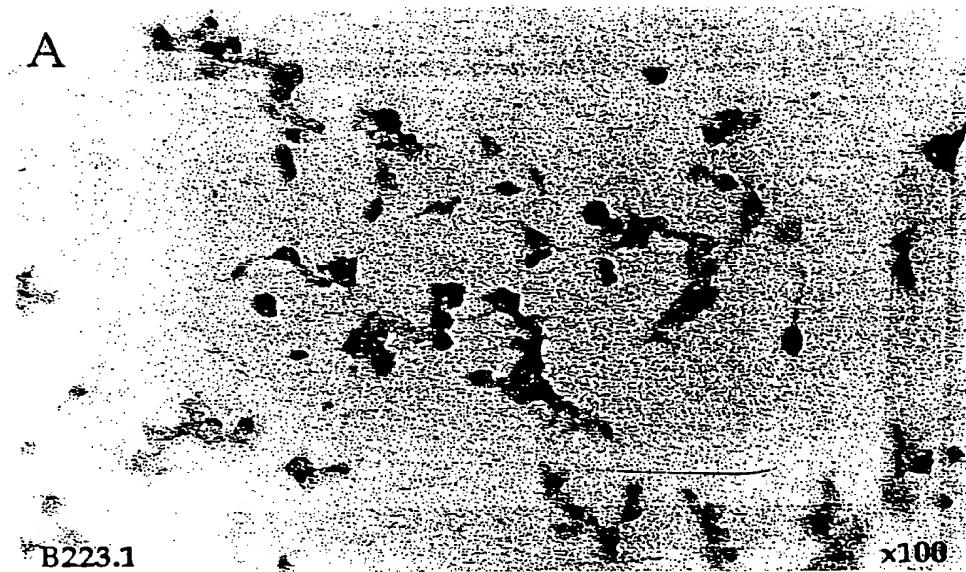


FIG. 13A

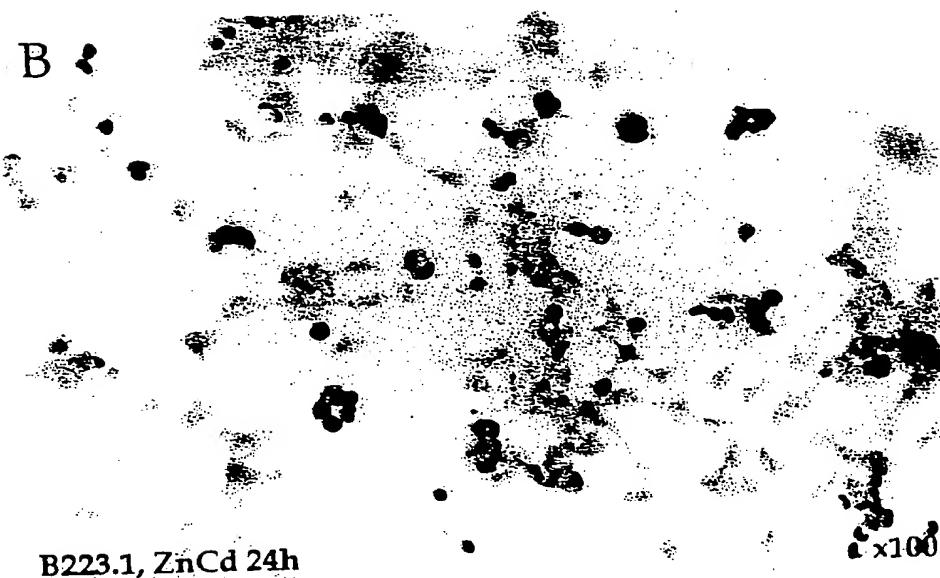


FIG. 13B

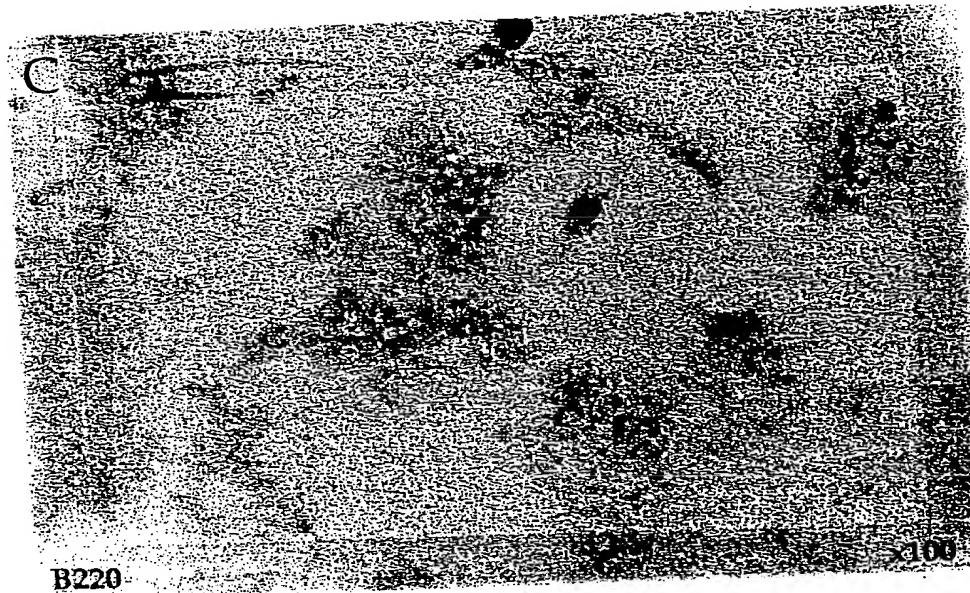


FIG. 13C

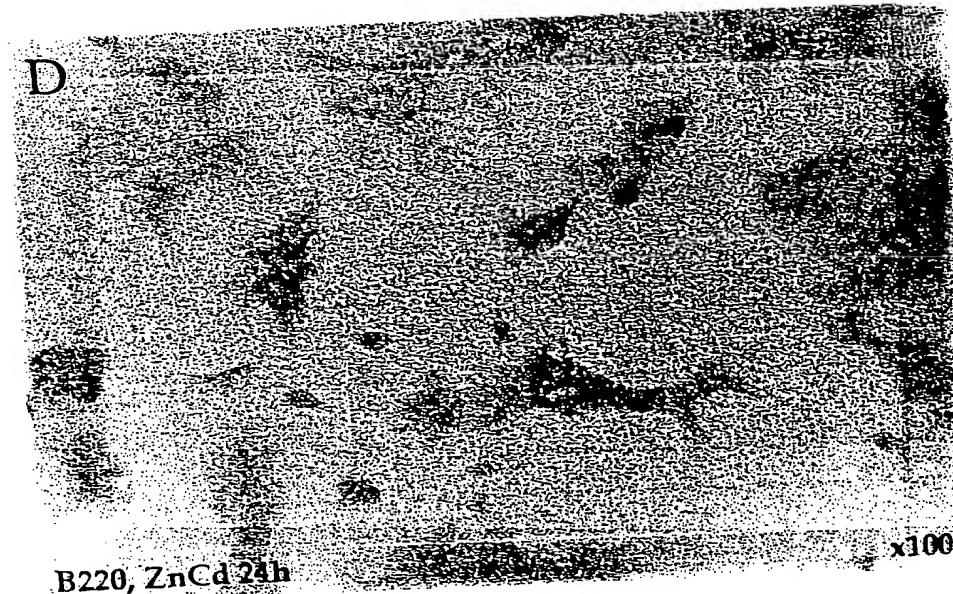


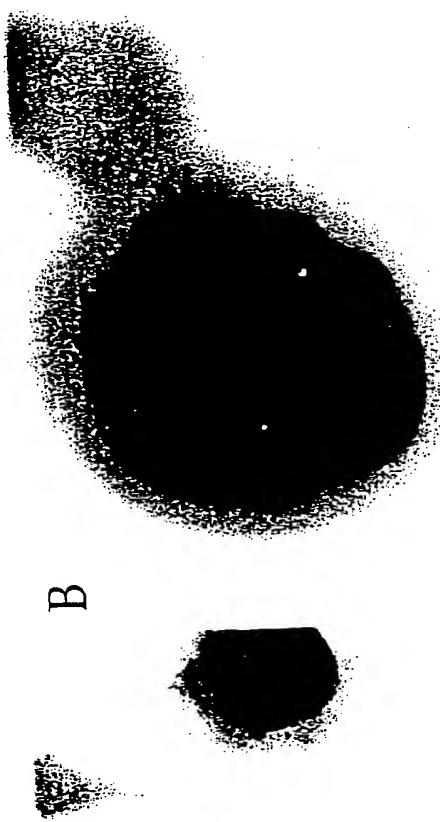
FIG. 13D



FIG. 14A



FIG. 14B



x504

C

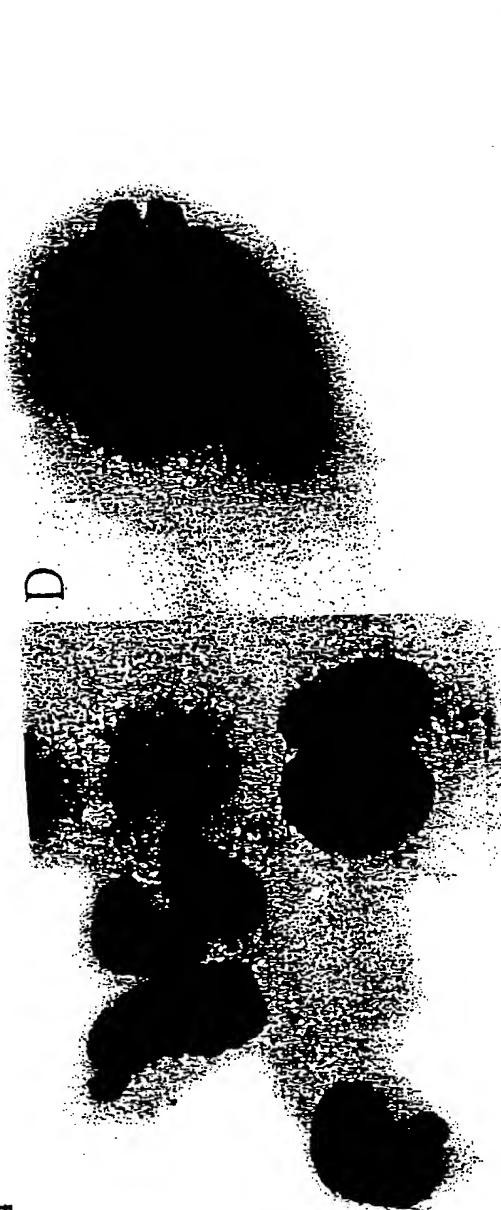
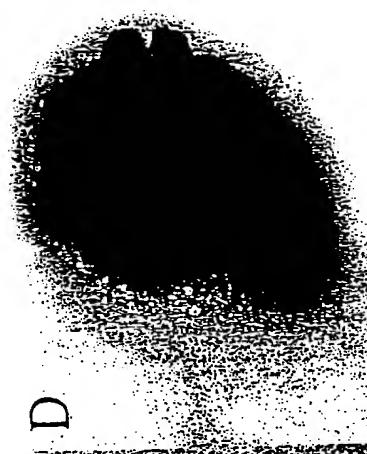


FIG. 14C

x1000

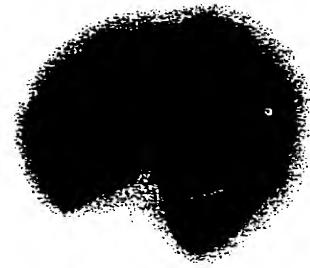
FIG. 14D

x1260





F



x2000

FIG. 14E

E



x1260

FIG. 14F

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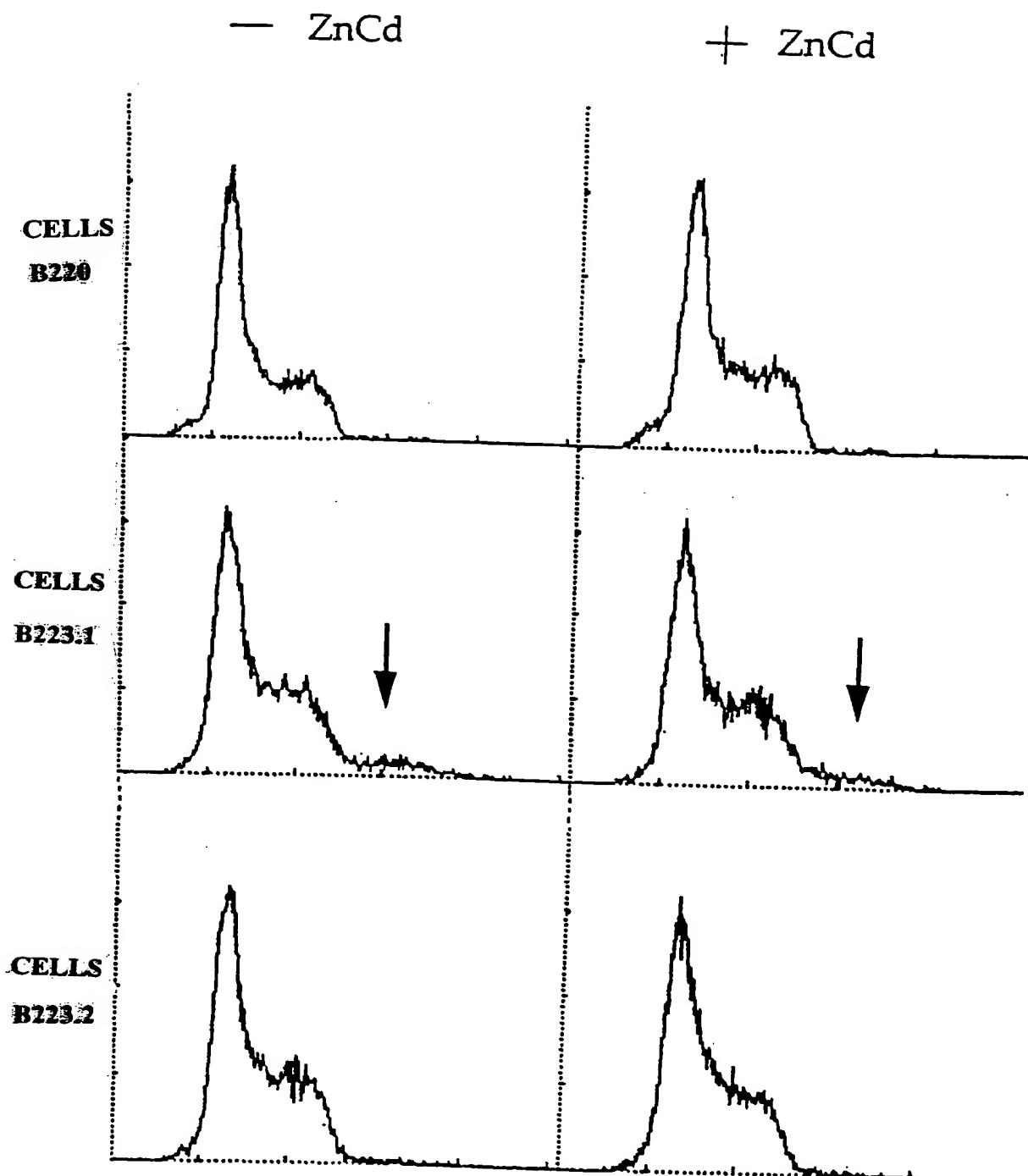


FIG. 15

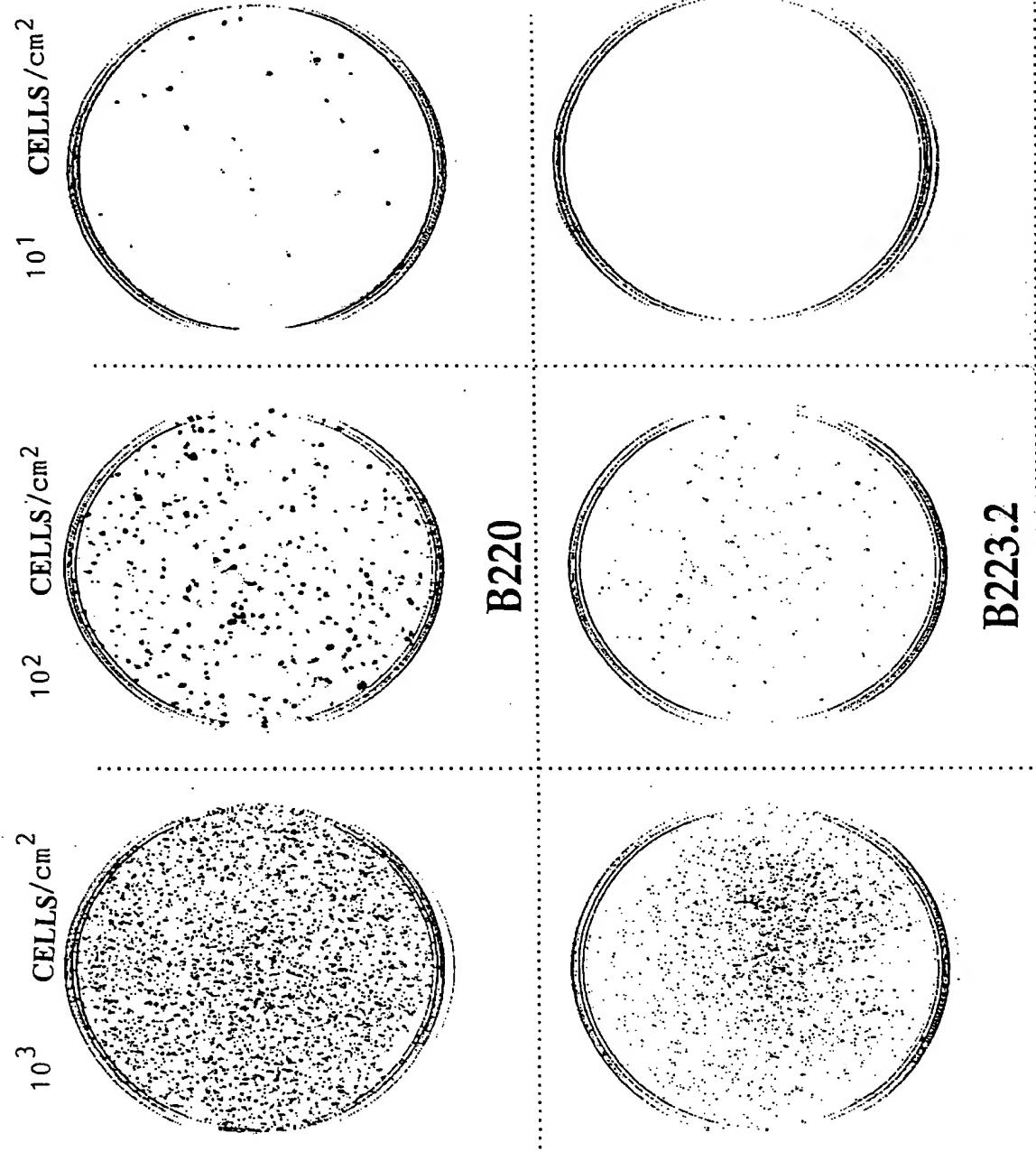
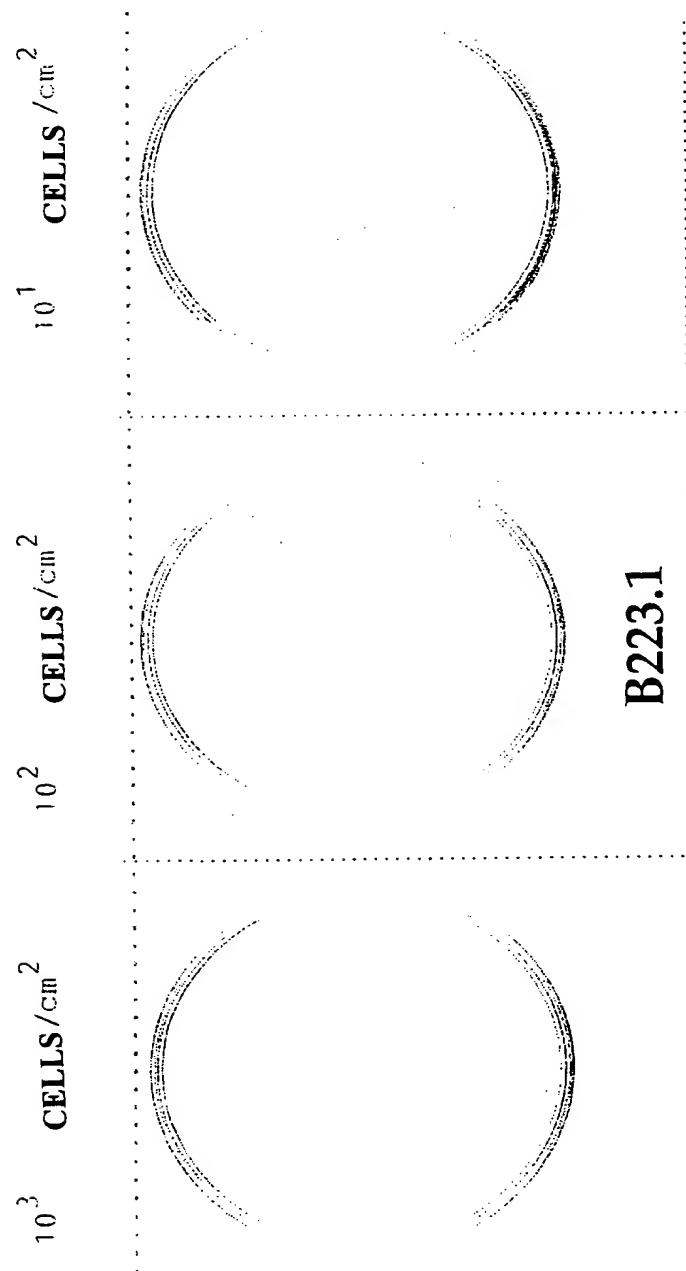


FIG. 16A



B223.1

FIG. 16B



FIG. 17A

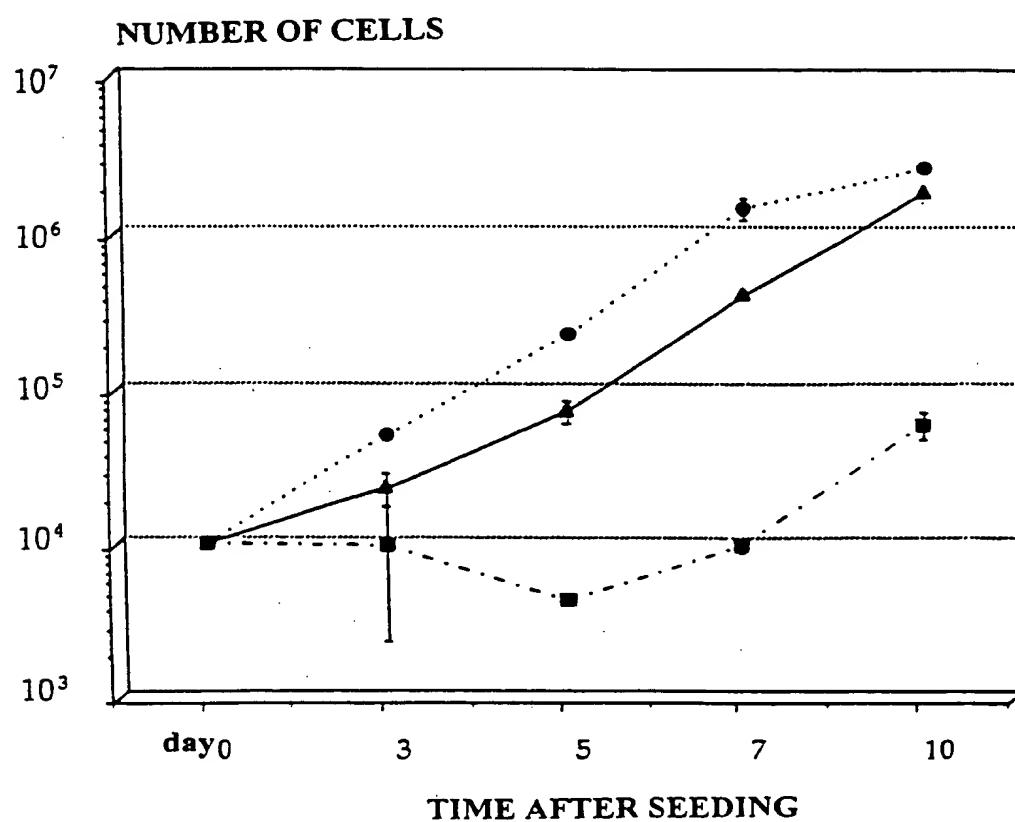
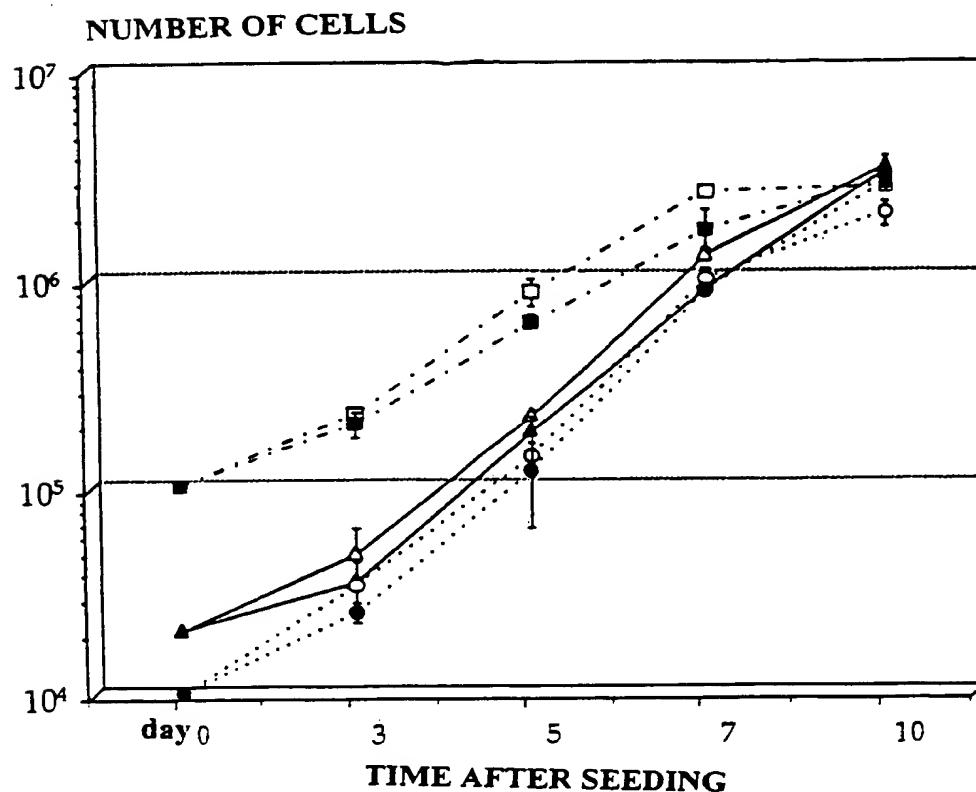
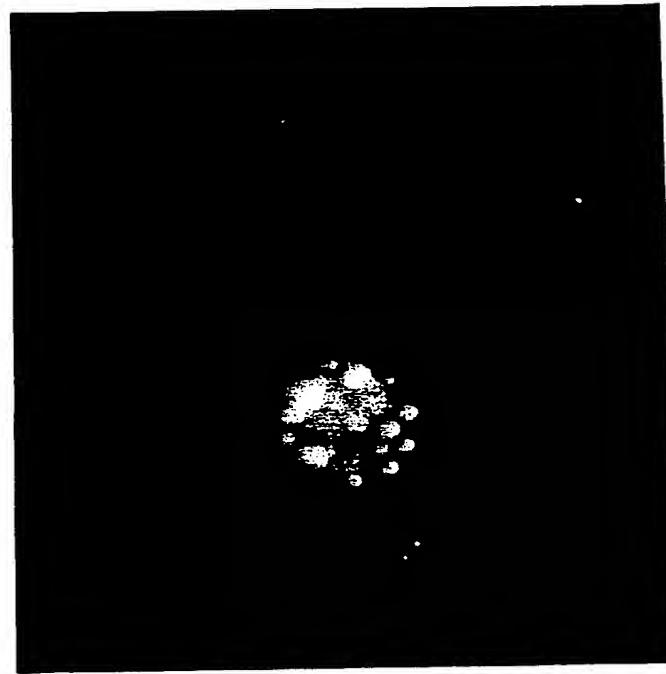


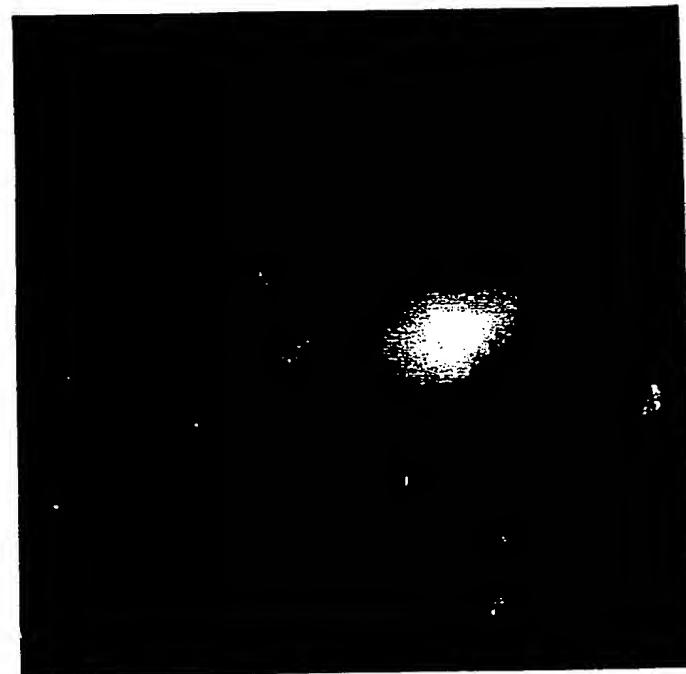
FIG. 17B





GFPkin17 NLS-CTT

FIG. 18B



GFPkin17 ΔCTT

FIG. 18A